**Figure 1**

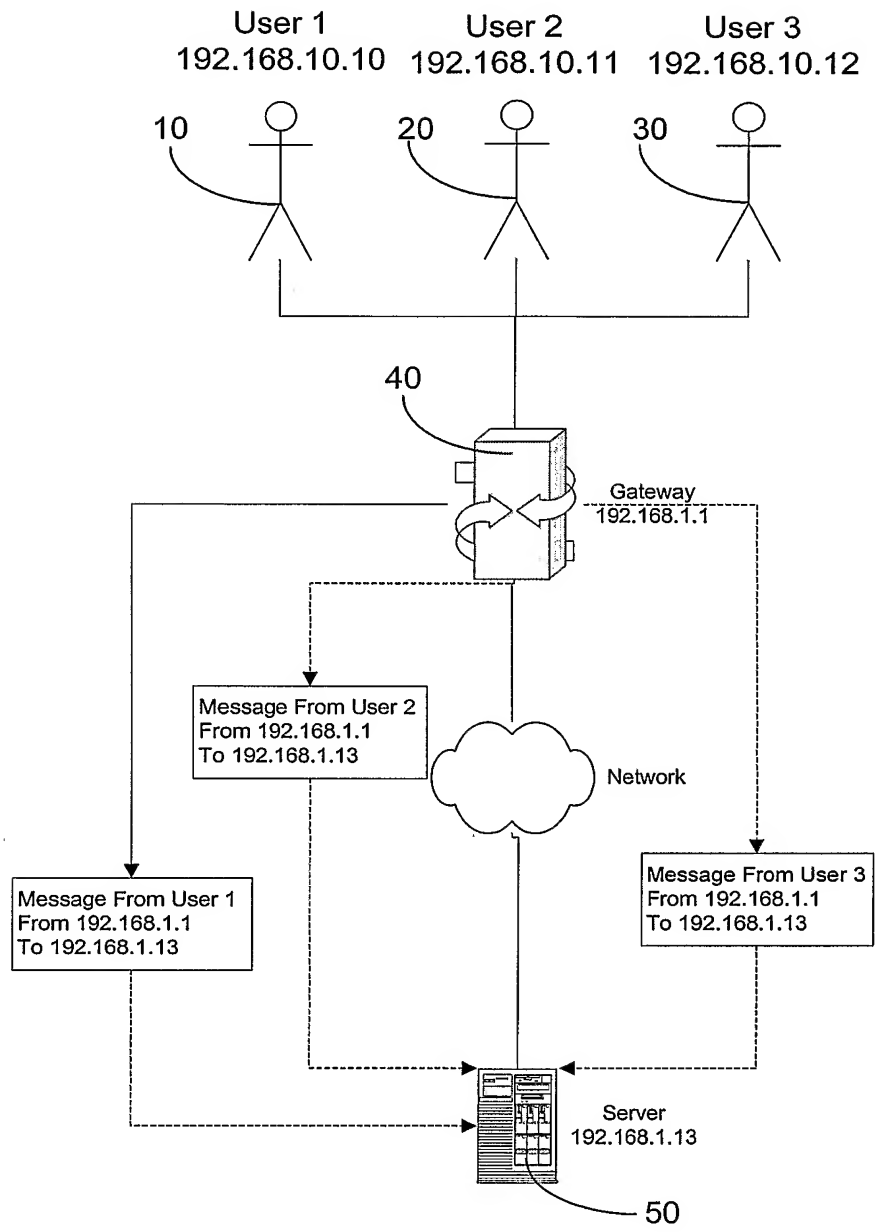
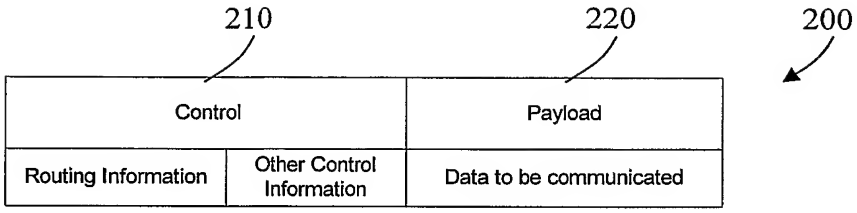
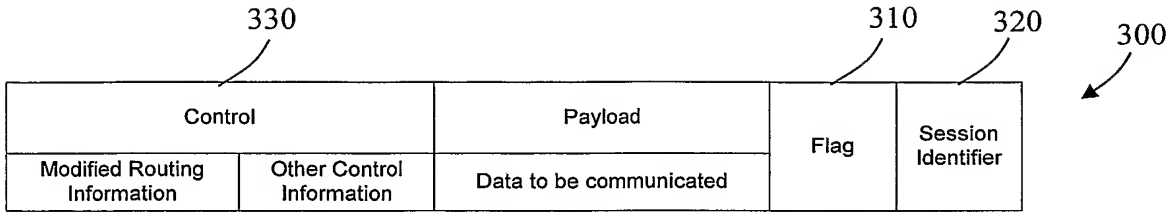

User 1
192.168.10.10
User 2
192.168.10.11
User 3
192.168.10.12
10
20
30
40
Gateway
192.168.1.1
Message From User 2
From 192.168.1.1
To 192.168.1.13
Network
Message From User 1
From 192.168.1.1
To 192.168.1.13
Message From User 3
From 192.168.1.1
To 192.168.1.13
Server
192.168.1.13
50

**Figure 2**


210
220
200
Control
Payload
Routing Information
Other Control Information
Data to be communicated

# Figure 3


330
310
320
300
Control
Payload
Flag
Session Identifier
Modified Routing Information
Other Control Information
Data to be communicated

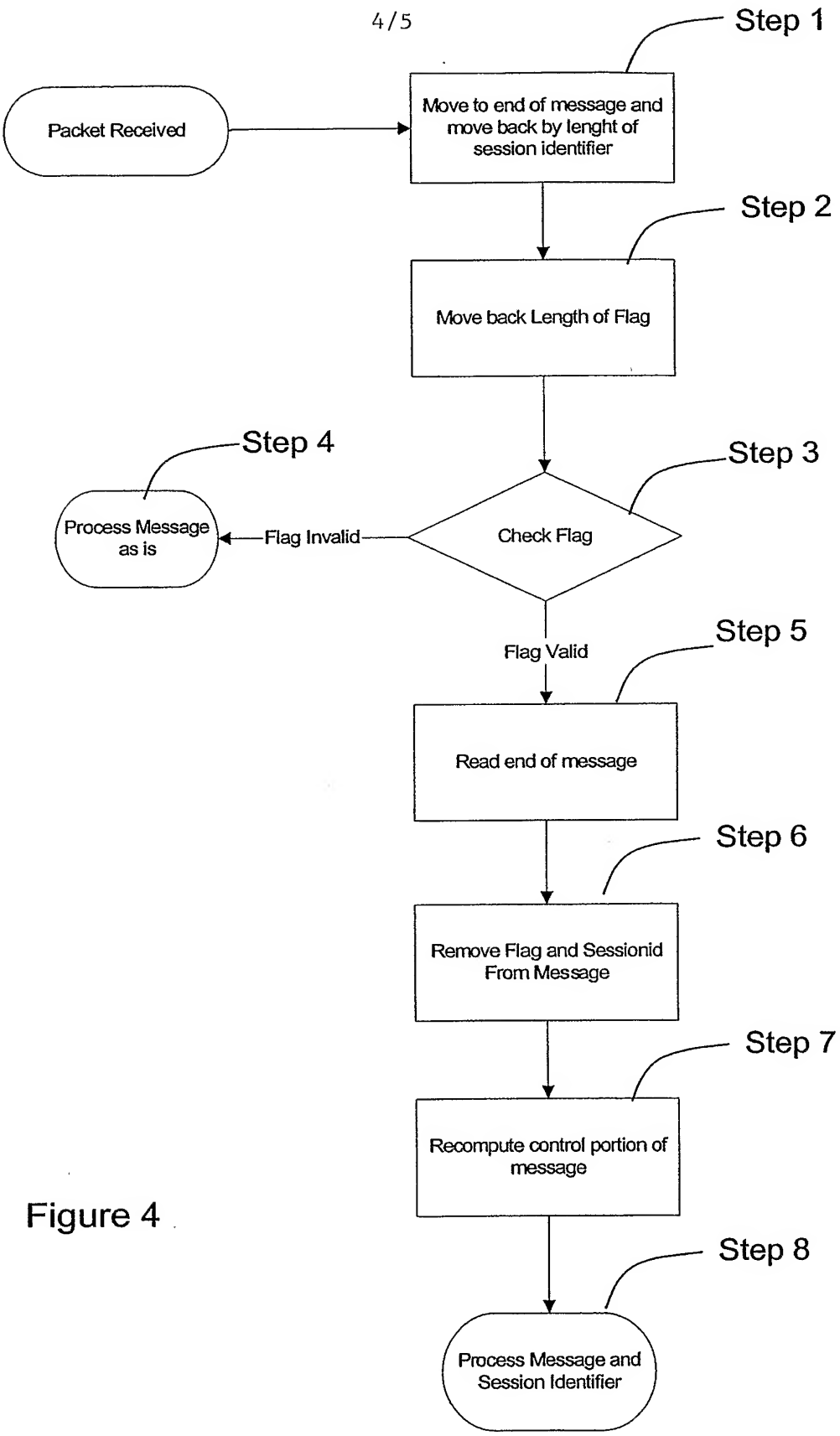
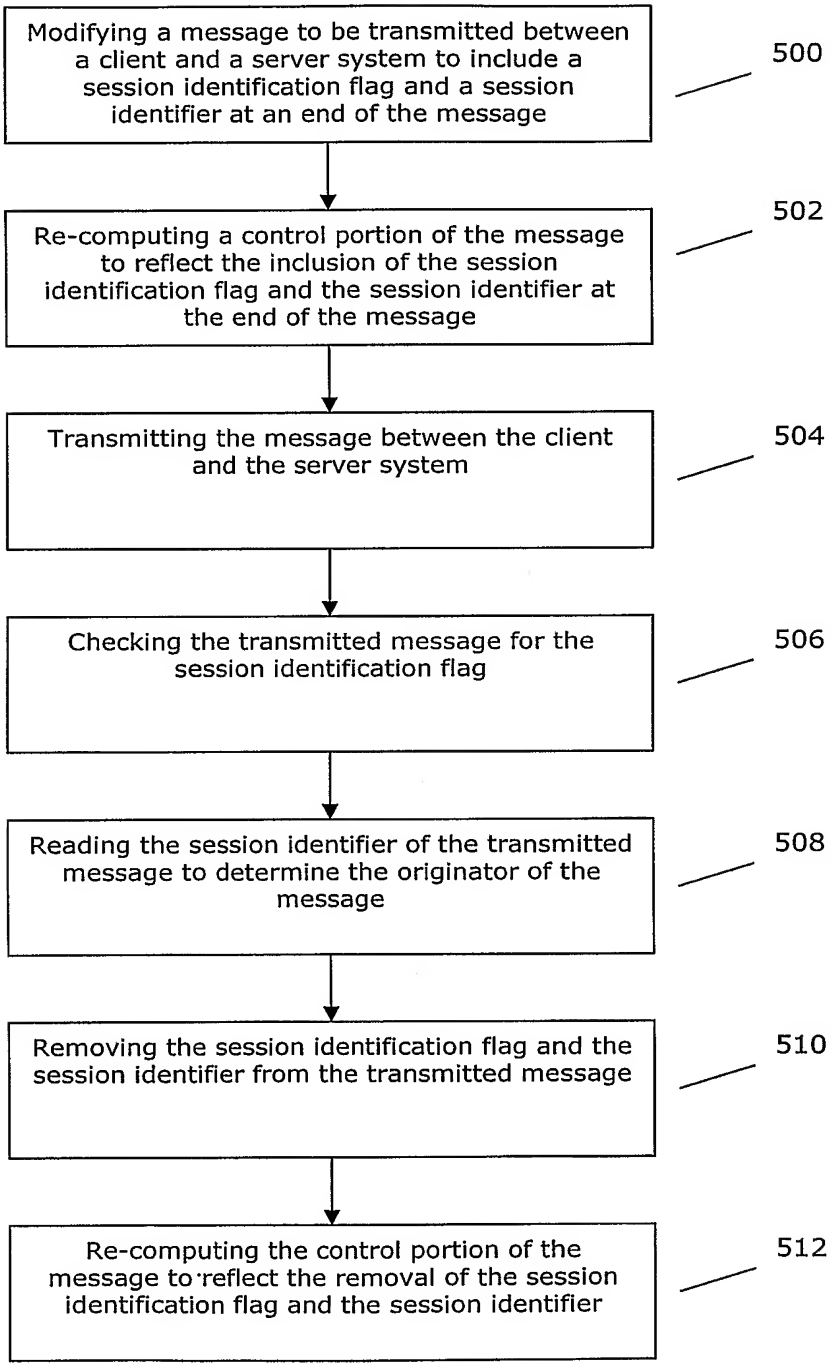

Step 1
Packet Received
Move to end of message and move back by lenght of session identifier
Step 2
Move back Length of Flag
Step 4
Step 3
Process Message as is
Flag Invalid
Check Flag
Flag Valid
Step 5
Read end of message
Step 6
Remove Flag and Sessionid From Message
Step 7
Recompute control portion of message
Step 8
Process Message and Session Identifier

Figure 4

**Figure 5**


Modifying a message to be transmitted between a client and a server system to include a session identification flag and a session identifier at an end of the message
500
Re-computing a control portion of the message to reflect the inclusion of the session identification flag and the session identifier at the end of the message
502
Transmitting the message between the client and the server system
504
Checking the transmitted message for the session identification flag
506
Reading the session identifier of the transmitted message to determine the originator of the message
508
Removing the session identification flag and the session identifier from the transmitted message
510
Re-computing the control portion of the message to reflect the removal of the session identification flag and the session identifier
512